

#### INDustrial TECHnologies 2018 Innovative Industries for Smart Growth

### INDTECH2018 Innovative industries for smart growth

29-31 October, 2018 Vienna, Austria PILLAR 2

#### Session 2.6

Innovative it solutions to enable process and system-spanning data integrity and data usage

Dr. Torsten Osthus

www.indtech2018.eu @IndTech2018 #IndTech2018

**OSTHUS GmbH** 

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 Federal Ministry Republic of Austria Transport, Innovation and Technology





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## AI / ETHICAL ISSUES OF DATA MANAGEMENT

Time to Reality: Al is about AI replaces market Data stuck data jobs prolonged in silos My personal We need Prevent Huge data is Data Ethics Innovations Costs for Life misused









**PINDustrial TECHnologies 2018** Innovative Industries for Smart Growth



# **Be FAIR to Your Data**

# Innovation on data is a key asset for digitalization.



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# AN INDUSTRY EXAMPLE: ALLOTROPE - RETHINKING SCIENTIFIC DATA OSTHUS

#### Why Allotrope?

- · Scientific data stuck in data silos
- · Billions of euros lost through IT integration and curation work
- · Risks in regulatory compliance
- · Barrier to innovation



## abbvie AMGEN



Bayer



**OSTHUS** 

# THE ALLOTROPE FRAMEWORK CONTRACT WAS AWARDED TO OSTHUS IN 2013.

In 2013, a request for proposal to develop the <u>Allotrope Data</u> <u>Format (ADF)</u> was submitted by a consortium of top 20 big pharmaceutical and biotech companies, members of the Allotrope Foundation, seeking to pursue machine learning and artificial intelligence and enable the digital laboratory of the Future.





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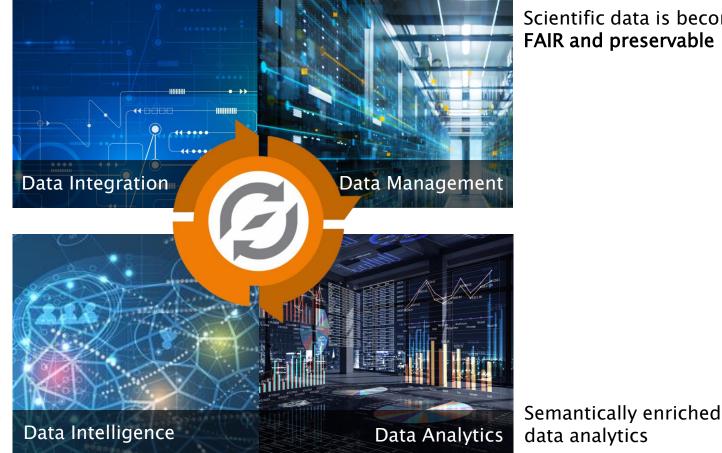


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#### THE ALLOTROPE FRAMEWORK IN CONTEXT OF THE DATA INNOVATION CIRCLE

Solving the root cause of the problem: where scientific data is produced



Scientific data is becoming FAIR and preservable

**⊘**STHUS<sup>∅</sup>

- **Enabling Big Analysis** • secures innovation dynamics
  - Predicition ٠
  - New insights ٠
  - Relevance / data ٠ knowledge



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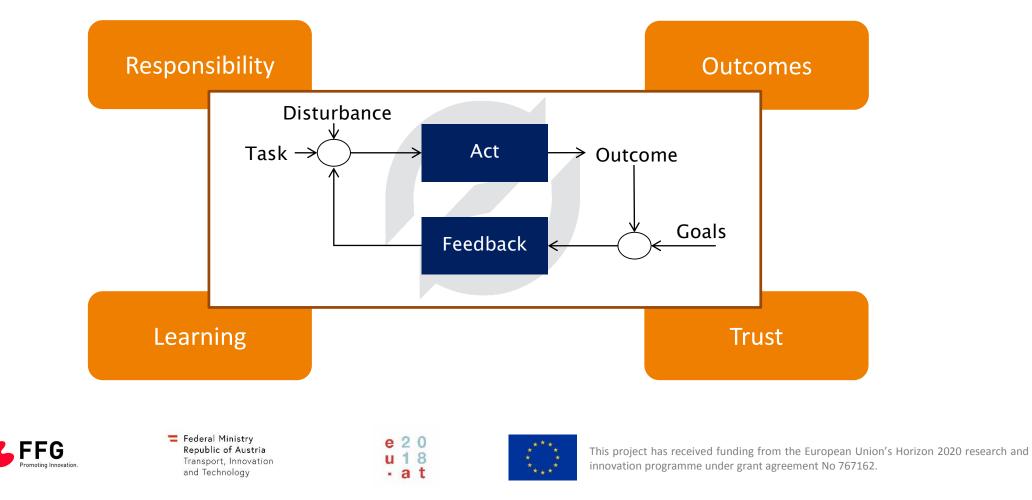


data analytics This project has received funding from the European Union's Horizon 2020 research and

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#### DATA INNOVATION CULTURE





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